LSE



Person Specification

This form lists the essential and desirable requirements needed in order to do the job.

Applicants will be shortlisted **solely** on the extent to which they meet these requirements.

Job title: Research Officer in Algorithms and Optimisation

Department/Division: Department of Mathematics

Accountable to: Head of Department

Competency	Criteria	E/D
Knowledge and Experience	Successful completion (or near completion) of PhD in a discipline relevant to optimisation, such as Mathematics, Computer Science, or Operations Research.	E
	Demonstrates comprehensive knowledge and experience in areas relevant to the project "Usable Algorithms in Network Optimization": the theoretical and algorithmic understanding of fundamental problems in discrete optimisation.	E
	Evidence of developing a body of good quality publications, in well-recognised peer reviewed outlets, through independent original research.	E
	 Research expertise in some of the following topics: approximation algorithms (especially based on convex relaxations) fundamental network design problems, (e.g., Steiner tree, robust network design, the travelling salesman problem) fast / strongly polynomial algorithms for network optimization problems dynamic (time-varying) traffic models scheduling probabilistic / game-theoretic aspects of optimisation 	D
Communication	Excellent written and oral communication skills, including an ability to place one's specialist work within a broader context and to communicate research findings effectively to a range of audiences.	E
Investigation, analysis and research	Ability to analyse and research complex ideas, concepts or theories.	E
Planning and organisation	Ability to take a significant role in pursuing the activities and objectives of the research project.	Е
	Evidence of good time and workload management and planning skills, setting priorities and committing to delivery within deadlines.	Е



Teamwork and motivation	A commitment and demonstrated ability to work as part of a collaborative research team in assisting the smooth running of the project.	D
	Ability to take responsibility for, and work independently on, specific project tasks, consulting and reporting to colleagues appropriately.	D
	A flexible and creative attitude to work.	D
	Willingness to travel within the United Kingdom and beyond to conduct research and attend conferences.	D
Liaison and networking	Evidence of experience of participation in academic events.	D
networking	Demonstrated ability to initiate and build and maintain a collaborative network of contacts.	D

E – Essential: requirements without which the job could not be done. D – Desirable: requirements that would enable the candidate to perform the job well.